

Title (en)
METHOD AND APPARATUS FOR TREATING CONTAMINATED SOIL

Publication
EP 0457889 A4 19930210 (EN)

Application
EP 91901212 A 19901129

Priority
• US 9006978 W 19901129
• US 44760089 A 19891208

Abstract (en)
[origin: US4974528A] A vehicle-mounted system for removing hydrocarbon contaminants from the soil has an inclined rotary kiln which is rotated about a substantially horizontal axis of rotation, a burner assembly at the discharge end of the kiln and a hopper for loading soil into the inlet end to advance through the kiln and be directly heated by the burner assembly. The exhaust stream created in the kiln is drawn through a baghouse for removal of fines, then through the catalytic incinerator to burn any unburned constituents in the exhaust stream. The temperature of the exhaust stream is monitored prior to its passage into the incinerator and at the discharge end of the incinerator as well; and the concentration of hydrocarbon constituents in the exhaust stream is regulated either by introduction of air into the exhaust stream as it is discharged from the kiln or by recirculating a portion of the exhaust stream, after filtration, into the kiln.

IPC 1-7
F23D 3/00; **F23D 5/00**; **F23D 9/00**

IPC 8 full level
B09C 1/06 (2006.01); **F23G 5/00** (2006.01); **F23G 5/027** (2006.01); **F23G 5/40** (2006.01); **F23G 7/06** (2006.01); **F23G 7/07** (2006.01); **F23G 7/14** (2006.01)

CPC (source: EP US)
B09C 1/06 (2013.01 - EP US); **F23G 5/006** (2013.01 - EP US); **F23G 5/0276** (2013.01 - EP US); **F23G 5/40** (2013.01 - EP US); **F23G 7/07** (2013.01 - EP US); **F23G 7/14** (2013.01 - EP US); **F23G 2201/50** (2013.01 - EP US)

Citation (search report)
See references of WO 9109254A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
US 4974528 A 19901204; AT E123130 T1 19950615; AU 630060 B2 19921015; AU 6913591 A 19910718; CA 2046586 A1 19910609; DE 69019735 D1 19950629; DE 69019735 T2 19960208; EP 0457889 A1 19911127; EP 0457889 A4 19930210; EP 0457889 B1 19950524; WO 9109254 A1 19910627

DOCDB simple family (application)
US 44760089 A 19891208; AT 91901212 T 19901129; AU 6913591 A 19901129; CA 2046586 A 19901129; DE 69019735 T 19901129; EP 91901212 A 19901129; US 9006978 W 19901129